

SURFACE WATER MANAGEMENT APPLICATION
FOR
MODIFICATION TO INDIVIDUAL PERMIT 36-00067-S

SPANISH WELLS

LEE COUNTY, FLORIDA

AUGUST, 1994

PREPARED BY

ALAN V. ROSEMAN

Q. GRADY MINOR AND ASSOCIATES, P.A.

CIVIL ENGINEER

CIVIL ENGINEERS ♦ LAND SURVEYORS

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BONITA SPRINGS, FL 33923
(813)947-1144

ORIGINAL SUBMITTAL

SEP 08 1994

FT. MYERS

F:SPWLBEE.SW2

APPLICATION NUMBER

940903-3

FT. MYERS SERVICE CENTER

SCANNED

SURFACE WATER MANAGEMENT PERMIT APPLICATION
FOR
MODIFICATION TO THE INDIVIDUAL PERMIT FOR
SPANISH WELLS

SECTION I

SITE INFORMATION

A. *Location Sketch* (Item I-1)

The project is located in Section 02 & 03, Township 48 South, Range 25 East, Lee County, Florida. Refer to enclosed Item I-1 for the Location Map.

B. *Aerial Photograph* (Item I-2)

Refer to enclosed Item I-2 for the aerial photograph with boundary delineated.

C. *Wetlands* (Item I-3)

This project has been 100% permitted for construction at this time with approximately 95% actually completed with the remaining existing vegetation cover consisting of slash pine, generally with saw palmetto understory, which are mostly platted lots and the permitted maintenance area.

(Item I-4) N/A

(Item I-5)

Wetland Control Elevation Table N/A

D. (Item I-6) N/A

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SECTION II

PROJECT INFORMATION

A. *Project Description* (Items II-1A and II-1B)

This project will consist of a golf course community with zoning for 746 residential units and 18 acres of Future Commercial Tourist. The original conceptual approval was for a total of 417 acres discharging through one outfall structure into a peripheral ditch that sheet flows south.

The original construction was for 297.4 acres of which 24.5 acres were to be lakes.

On October 11, 1979 this permit was modified to include: The construction and operation of Phase II, consisting of 60 acres and the deletion of culverts approved in the districts conceptual approval, dated October 19, 1978, to be replaced with the use of two (2) 4200 GPM pumps.

On May 25, 1990 the permit was modified to include the construction of an additional 23.35 acres referred to as Phase III-A, and another additional 24.24 acres referred to as Phase III-B.

On December 10, 1992 the permit was modified to increase the original 417 acres conceptually approved to 463.05 acres so as to include the sewage treatment plant and proposed golf course maintenance area that is contiguous to the site on the east but was constructed under a separate permit and add contiguous lands to the north that contain existing lakes, peripheral ditches and pump number 1.

This application is to remove areas to the north previously added and the existing sewage treatment plant and pond site which will be removed upon turnover to Bonita Springs Utilities and the site included in a modification to the Las Brisas Permit Number 36-02768-S.

Also the area to the southeast previously shown as CT (commercial) and Phase IV will be water managed under a future submittal and outfall directly to the south spreader swale or Old 41 Road and not through this pumped system.

B. *Topographic map* (Item II-2).

Included is a 1981 Lee County Contour Aerial which shows the site topography after the initial construction.

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C. **Drainage map** (Item II-3).

See attached overall drainage map.

D. **Water Elevation** (Item II-4a).

1. **Basin Water Table Elevation**

<u>Basin Number</u>	<u>Wet Season Water Table (Pumped) (Ft., NGVD)</u>
1	9.5

2. The water table was determined by the following methods.

- a. The existing pumps are "off" at Elev. 9.5 NGVD.
- b. Phase III wet season water table was documented at Elev. 9.28 in a test hole October 1990 with lake elev. 8.44 at east and elev. 8.44 at lake to north.
- c. The Springs Plaza Permit No. 36-00317-S immediately to the east was permitted at control elevation 9.0.

3. No water resource related systems will be affected by this project. (Item II-5).

4. This project lies outside of the 100-year floodplain. (Item II-6).

E. **Percolation** (Item II-7) N/A

F. **Water Withdrawals** (Item II-8)

Water withdrawals are currently permitted by Horizontal Wells see attached Permit 36-00586-W copy attached.

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SECTION III

MASTER PLAN

A. Master Paving, Grading and Drainage Plans (Item III-1)

Enclosed are six (6) signed and sealed Master Drainage Plans.

B. Drainage Plan Details (Item III-2)

N/A - There is no additional construction associated with this permit modification.

C. Receiving Body List (Item III-3)

Discharge is into a peripheral swale which outfalls to the south (natural sheet flow).

D. Construction Techniques (Item III-4) N/A - See Item B.

E. Legal Reservations (Item III-5) N/A

F. Affected Facilities (Item III-6)

No water resource related facilities will be affected.

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SECTION IV

SURFACE WATER MANAGEMENT ANALYSIS

A. Facilities

1. *Existing Facilities* (Item IV-1)

The attached Master Drainage Plan shows the existing facilities.

2. *Facilities previously approved or permitted by SFWMD* (Item IV-2)

The attached Master Drainage Plan shows existing facilities.

3. *Proposed Facilities* (Item IV-3)

There are no proposed new facilities.

4. *Facility Details* (Items IV-5, IV-6, IV-7, IV-8, IV-9 and IV-10).

a. No exfiltration trench is proposed.

b. Discharge Structure Table

Baffle No
Control device

Discharge Structure Table
Pump

1st pump on

Elev. 10.0

2nd pump on

Elev. 10.5

Both pumps off

Elev. 9.5

Outfall Culvert: 15" from pump

Spreader Swale: Entire west and south property boundary

B. *Stage-Discharge and Stage-Storage* (Item IV-11)

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STAGE STORAGE AND DISCHARGE

39.48 ac.

113.49 ac. golf course

192.52 ac. lot

Ac/Ft. Stage	Lakes	Pervious Site	Site Area	Total
9.5	0	0	0	0
10.0	$19.74 + ((.5/5)(.5/2)(113.49)) = 2.84$		0	22.58
10.5	$39.48 + ((1/5)(1/2)(113.49)) = 11.35$		0	50.83
11.0	$59.22 + ((1.5/5)(1.5/2)(113.49)) = 25.54 +$		$((.5/4)(.5/2)(192.52)) = 6.02 =$	90.78
11.5	$78.96 + ((2/5)(2/2)(113.49)) = 45.40 +$		$((1/4)(1/2)(192.52)) = 24.07 =$	148.43
12.0	$98.70 + ((2.5/5)(2.5/2)(113.49)) = 70.93 +$		$((1.5/4)(1.5/2)(192.52)) = 54.15 =$	223.78
12.5	$118.44 + ((3/5)(3/2)(113.49)) = 102.14 +$		$((2/4)(2/2)(192.52)) = 96.26 =$	316.80
13.0 427.62	$138.18 + ((3.5/5)(3.5/2)(113.49)) = 139.03 +$		$((2.5/4)(2.5/2)(192.52)) = 150.41 =$	
13.5	$157.92 + ((4/5)(4/2)(113.49)) = 181.58 +$		$((3/4)(3/2)(192.52)) = 216.59 =$	556.09
14.0 702.28	$177.66 + ((4.5/5)(4.5/2)(113.49)) = 229.82 +$		$((3.5/4)(3.5/2)(192.52)) = 294.80 =$	
14.5	$197.40 + ((5/5)(5/2)(113.49)) = 283.73 +$		$((4/4)(4/2)(192.52)) = 385.04 =$	866.17

Discharge - (2) 4200 GPM pumps

Pump 1 on @ Elev. 10.00

Pump 2 on @ Elev. 10.50

Pumps off @ Elev. 9.5

C. *Acreages* (Item IV-12)

Original Project Area = 371.29 acres
Revised Maintenance Area = 8.22 acres
Contributing Off-site Area = 12.02 acres
Total Water Management Area = 391.53 acres

Lakes Area = 39.48 Acres

Impervious Areas:

Roof Area = 46.04 acres
Pavement Area = 33.18 acres
Total Impervious Area = 79.27 acres

Pervious Areas:

Golf Course = 113.49 acres
Lots/RoW = 159.34 acres
Total Pervious Area = 272.83 acres

D. *Water Quality* (Item IV-13)

The site has been designed to detain a 25-year, 3-day storm. The outfall is via 2-4200 GPM pumps that start discharging at elev. 10.0 and 10.5 consecutively. The outfall flows into an 8,500 ± l.f. peripheral swale that allows sheet flow to the south.

E. *Soil Storage* (Item IV-13C)

Available soil storage (s)
Depth to water table = 3.0'

$$S' = 4.95$$

$$S = 4.95 \times (322.70/463.05) = 3.45 \text{ inches soil storage}$$

F. *Allowable Discharge* (Item IV-14)

Discharge is presently permitted via 2 - 4200 GPM pumps.

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G. Flood Routings (Item IV-15)

See attached Item IV-15A

H. Floodplain Encroachments (Item N - K through IV-20)

N/A

MINIMUM BUILDING FLOOR ELEVATIONS (Item IV-15C)

100 year - 72 hour Zero Discharge Storm Event

Total Rainfall (P):

$$10.2 \times 1.359 = 13.86 \text{ inches}$$

$$Q = (P - 0.2s)^2 / (P + 0.8s)$$

Minimum Building Floor Elevation

$$Q = (13.86 - (0.2 \times 3.45))^2 / (13.86 + (0.8 \times 3.45))$$

$$= 173.45 / 16.62$$

$$= 10.44 \text{ inches rainfall}$$

Total Runoff:

$$10.44 \times 1/12 \times 391.53 = 131.61 \text{ ac./ft.}$$

From Stage/Storage Calc.

$$340.63 \text{ ac/ft} = \text{Elevation 12.61 NGVD}$$

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SECTION V

Legal and Institutional

- a. Proof of ownership is enclosed (Item V-1).
- b. Responsible entity shall be the Spanish Wells Home Owners Association.
- c. Utilities (Item V-3 and V-4).
Water service is supplied by Bonita Springs Utilities.
Sewer service is supplied by SW Disposal System.
- d. Receiver Body (Items V-5 and V-6). N/A -(Sheet flow via perimeter swales).
- e. Land Use (Item V-7). Residential, Golf Course
- f. Development of Regional Impact Status (Item V-8). N/A
- g. Survey (Item V-9). Please see enclosed Master Drainage Plan.

SECTION VI N/A

SECTION VII N/A

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SURFACE WATER MANAGEMENT SUMMARY

APPLICATION NO.:

PERMIT NO.: (MOD) 36-00067-S

PROJECT NAME: SPANISH WELLS

LOCATION: LEE COUNTY, S 2 and 3/T 48 S/R 25 E

APPLICANTS NAME AND ADDRESS: SPANISH WELLS COUNTRY CLUB, LTD.
P.O. BOX 2288
BONITA SPRINGS, FL 33959

DISTRICT DRAINAGE BASIN: COCOHATCHEE

RECEIVING BODY: PERIPHERAL SWALE

RECEIVING BODY CLASSIFICATION: CLASS V

SPECIAL DISTRICT: N/A

POTABLE WATER SUPPLIER: BONITA SPRINGS UTILITIES

WASTEWATER SYSTEM/SUPPLIER: S/W DISPOSAL SYSTEM, INC.

OWNER: SPANISH WELLS COUNTRY CLUB, LTD.

DEVELOPER: MCCOY DEVELOPMENT

OPERATION ENTITY: SPANISH WELLS COUNTRY CLUB, INC.

ENGINEER: Q. GRADY MINOR & ASSOCIATES, P.A.

SWM LAND USE: RESIDENTIAL

PROJECT AREA: 391.53 ACRES

DRAINAGE AREA: 391.53 ACRES

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PURPOSE:

THIS APPLICATION IS A REQUEST TO MODIFY THE EXISTING SURFACE WATER MANAGEMENT SYSTEM SERVING THE EXISTING SPANISH WELLS GOLF COURSE COMMUNITY AND GOLF COURSE MAINTENANCE AREA ONLY WITH THE EXISTING PUMPED SYSTEM. THIS APPLICATION REMOVES LANDS TO THE NORTH ALONG WITH THE EXISTING SEWAGE TREATMENT PLANT AND POND AREA WHICH IS CURRENTLY BEING TURNED OVER TO BONITA SPRINGS UTILITIES. THESE LANDS WILL BE INCLUDED IN THE MODIFIED LAS BRISAS PERMIT NUMBER 36-02768-S THAT IS BEING SUBMITTED CONCURRENTLY. ALSO BEING REMOVED WITH THIS APPLICATION IS THE CT (COMMERCIAL) AREA AND THE FUTURE PHASE IV AREA WHICH WILL BE SUBMITTED AT A LATER DATE UNDER A SEPERATE PERMIT. THESE LANDS WOULD BE MANAGED AND STORED SEPERATELY AND WILL OUTFALL TO THE SOUTH.

BACKGROUND:

THIS APPLICATION IS A REQUEST TO MODIFY THE EXISTING SPANISH WELLS SURFACE WATER MANAGEMENT SYSTEM PERMIT NO. 36-00067-S.

EXISTING FACILITIES:

EXISTING SURFACE WATER MANAGEMENT SYSTEMS FOR PREVIOUSLY PERMITTED PHASES OF SPANISH WELLS.

PROPOSED FACILITIES:

PROPOSED SURFACE WATER MANAGEMENT SYSTEM SERVING A 391.53 ACRE GOLF COURSE COMMUNITY.

DESIGN STORM:

25-YEAR, 3 DAY

DESIGN RAINFALL:

8.15 INCHES

FLOOD CONTOUR:

11.98' NGVD

PERIMETER MINIMUM GRADE:

12.2' NGVD

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ROAD DESIGN STORM:	5-YEAR, 1-DAY
DESIGN RAINFALL:	5.35 INCHES
FLOOD CONTOUR:	10.73' NGVD
ROAD MINIMUM CENTERLINE ELEVATION:	11.00' NGVD
PARKING LOT DESIGN STORM:	5-YEAR, 1 DAY
DESIGN RAINFALL:	5.35 INCHES
FLOOD CONTOUR:	10.73' NGVD
PARKING LOT MINIMUM CENTERLINE ELEVATION:	11.00' NGVD
FINISH FLOOR DESIGN STORM:	100-YEAR, 3-DAY
DESIGN RAINFALL:	10.14 INCHES
FINISH FLOOR FLOOD CONTOUR:	12.61' NGVD
MINIMUM FINISH FLOOR ELEVATION:	12.7' NGVD
FEMA ELEVATION:	N/A

GENERAL BASIN INFORMATION

WSWT ELEVATION:	9.5 FT. NGVD (Pumped)
WSWT METHOD OF DETERMINATION:	PERMITTED
CONTROL ELEVATION:	PUMP #1 ON EL 10.0, PUMP #2 ON EL. 10.5
ALLOWABLE DISCHARGE:	18.7 CFS
METHOD OF DETERMINATION:	(2) 4200 GPM PUMPS (PERMITTED)
DESIGN DISCHARGE: 18.7 CFS	DESIGN STAGE: 12.00 FT. NGVD
MINIMUM PERIMETER GRADE:	12.2 FT. NGVD

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WATER QUALITY SYSTEMS INFORMATION:

WQ SYSTEM: 39.48 AC. LAKES WITH SWALES

WATER MANAGEMENT AREA: 391.53 AC.

VOLUME REQUIRED: 24.47 ACRE/FT

VOLUME PROVIDED: 25.06 ACRE/FT

CULVERT INFORMATION: N/A

WEIR INFORMATION: N/A

WEIR TYPE: N/A

WIDTH: N/A

CREST ELEVATION: N/A

DROP INLETS INFORMATION: N/A

SLIDE GATES INFORMATION: N/A

BLEEDERS INFORMATION:

INVERT ELEVATION: N/A **WIDTH:** N/A

ELEVATION SEASON NORMAL: 9.5 (Pumped)

APPLICABLE LAND USE

TOTAL PROJECT AREA	=	391.53 AC.
GOLF COURSE AREA (W/MAINTENANCE)	=	121.71 AC.
MULTI-FAMILY AREA	=	2.01 AC.
SINGLE FAMILY AREA	=	267.81 AC.

LAKE AREA	=	39.48 AC.
BUILDING AREA	=	46.04 AC.
PAVED AREA	=	33.18 AC.

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S C S P R O G R A M

PROJECT NAME : SPANISH WELLS
 REVIEWER : ALAN V. ROSEMAN
 PROJECT AREA : 391.53 ACRES
 GROUND STORAGE : 3.45 INCHES
 TERMINATION DISCHARGE : 20.00 CFS
 DISTRIBUTION TYPE . . . : SFWMD
 RETURN FREQUENCY . . . : 5.00 YEARS
 RAINFALL DURATION . . . : 1-DAY
 24-HOUR RAINFALL . . . : 5.35 INCHES
 REPORTING SEQUENCE : : STANDARDIZED

STAGE (FT)	STORAGE (AF)
---------------	-----------------

9.50	.00
10.00	22.58
10.50	50.83
11.00	90.78
11.50	148.43

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12.00	223.78
12.50	316.80
13.00	427.62
13.50	556.09
14.00	702.28
14.50	886.17

PUMP NO.	PUMP ON ELEVATION (FEET)	PUMP OFF ELEVATION (FEET)	PUMP DISCHARGE (GPM)	PUMP DESCRIPTION	APPLICATION NUMBER
1	10.00	9.50	4200.00		940908-3
2	10.50	9.50	4200.00		

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TIME (HR)	RAIN FALL (IN)	ACCUM. RUNOFF (IN)	BASIN DISCHGE (CFS)	ACCUM. INFLOW (AF)	R E S E R V O I R				STAGE (FT)
					VOLUME (AF)	ACCUM. INSTANT OUTFLOW (AF)	DISCHGE (CFS)	AVERAGE DISCHGE (CFS)	
.00	.00	.00	.0	.0	.0	.0	.0	.0	9.50
4.00	.24	.00	.0	.0	.0	.0	.0	1.2	9.50
8.00	.73	.00	.8	.0	.0	.0	.0	.0	9.50
10.00	1.14	.05	19.1	1.7	1.7	.0	.0	.0	9.53
11.00	1.44	.13	42.0	4.4	4.4	.0	.0	.0	9.59
11.50	1.71	.23	81.3	7.5	7.5	.0	.0	.0	9.65
11.75	2.51	.63	626.4	20.5	20.5	.0	.0	.0	9.81
12.00	3.51	1.27	1010.7	41.4	41.4	.0	9.4	4.7	10.15
12.50	3.90	1.55	223.1	50.5	50.1	.4	9.4	9.4	10.45
13.00	4.10	1.70	119.4	55.4	54.4	1.0	18.7	16.1	10.53
14.00	4.38	1.90	74.3	62.1	59.6	2.5	18.7	18.7	10.60

TIME (HR)	RAIN FALL (IN)	ACCUM. RUNOFF (IN)	BASIN DISCHGE (CFS)	ACCUM. INFLOW (AF)	- - - - - R E S E R V O I R - - - - -				STAGE (FT)
					VOLUME (AF)	OUTFLOW (AF)	ACCUM. DISCHGE (CFS)	INSTANT DISCHGE (CFS)	
16.00	4.71	2.16	49.8	70.5	64.9	5.6	18.7	18.7	10.67
20.00	5.09	2.47	30.7	80.6	68.8	11.8	18.7	18.7	10.72
24.00	5.35	2.68	20.8	87.4	69.4	18.0	18.7	18.7	10.73

SUMMARY INFORMATION

MAXIMUM STAGE WAS 10.73 FEET AT 24.00 HOURS
 MAXIMUM DISCHARGE WAS 18.7 CFS AT .25 HOURS

PUMPING HISTORY

PUMP 1 "OFF" AT .50 HOURS
 PUMP 2 "OFF" AT .50 HOURS
 PUMP 1 "ON " AT 12.00 HOURS
 PUMP 2 "ON " AT 12.75 HOURS

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S C S P R O G R A M

PROJECT NAME : SPANISH WELLS
 REVIEWER : ALAN V. ROSEMAN
 PROJECT AREA : 391.53 ACRES
 GROUND STORAGE : 3.45 INCHES
 TERMINATION DISCHARGE : 20.00 CFS
 DISTRIBUTION TYPE . . . : SFWMD
 RETURN FREQUENCY . . . : 25.00 YEARS
 RAINFALL DURATION . . . : 3-DAY
 24-HOUR RAINFALL . . . : 8.15 INCHES
 REPORTING SEQUENCE . . : STANDARDIZED

STAGE
(FT)

STORAGE
(AF)

9.50 .00
 10.00 22.58
 10.50 50.83
 11.00 90.78
 11.50 148.43

12.00 223.78
 12.50 316.80
 13.00 427.62
 13.50 556.09
 14.00 702.28

14.50 886.17

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PUMP NO.	PUMP ON ELEVATION (FEET)	PUMP OFF ELEVATION (FEET)	PUMP DISCHARGE (GPM)	PUMP DESCRIPTION
1	10.00	9.50	4200.00	
2	10.50	9.50	4200.00	

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TIME (HR)	RAIN FALL (IN)	ACCUM. RUNOFF (IN)	BASIN DISCHGE (CFS)	ACCUM. INFLOW (AF)	R E S E R V O I R				STAGE (FT)
					VOLUME (AF)	ACCUM. OUTFLOW (AF)	INSTANT DISCHGE (CFS)	AVERAGE DISCHGE (CFS)	
.00	.00	.00	.0	.0	.0	.0	.0	.0	9.50
4.00	.20	.00	.0	.0	.0	.0	.0	1.2	9.50
8.00	.40	.00	.0	.0	.0	.0	.0	.0	9.50
12.00	.59	.00	.0	.0	.0	.0	.0	.0	9.50
16.00	.79	.00	1.1	.1	.1	.0	.0	.0	9.50
20.00	.99	.02	3.0	.8	.8	.0	.0	.0	9.52
24.00	1.19	.06	4.6	2.1	2.1	.0	.0	.0	9.54
28.00	1.48	.15	9.6	4.8	4.8	.0	.0	.0	9.60
32.00	1.77	.26	11.9	8.4	8.4	.0	.0	.0	9.68
36.00	2.06	.39	13.9	12.7	12.7	.0	.0	.0	9.78
40.00	2.35	.54	15.5	17.5	17.5	.0	.0	.0	9.88

- - - - - R E S E R V O I R - - - - -									
TIME	RAIN	ACCUM.	BASIN	ACCUM.		ACCUM.	INSTANT	AVERAGE	
(HR)	FALL	RUNOFF	DISCHGE	INFLOW	VOLUME	OUTFLOW	DISCHGE	DISCHGE	STAGE
(IN)	(IN)	(CFS)	(AF)	(AF)	(AF)	(CFS)	(CFS)	(CFS)	(FT)
44.00	2.64	.70	16.8	22.9	22.9	.0	9.4	.3	10.00
48.00	2.93	.88	18.0	28.7	25.6	3.1	9.4	9.4	10.05
52.00	3.29	1.12	30.3	36.5	30.3	6.2	9.4	9.4	10.13
56.00	4.04	1.65	71.5	53.9	44.6	9.3	9.4	9.4	10.38
58.00	4.66	2.13	110.6	69.4	57.9	11.5	18.7	13.5	10.57
59.00	5.12	2.49	165.8	81.2	68.3	12.9	18.7	18.7	10.70
59.50	5.53	2.82	264.6	92.1	78.4	13.7	18.7	18.7	10.81
59.75	6.75	3.86	1638.9	125.9	111.8	14.1	18.7	18.7	11.04
60.00	8.27	5.21	2133.6	170.0	155.5	14.5	18.7	18.7	11.37
60.50	8.87	5.75	427.3	187.6	172.4	15.2	18.7	18.7	11.63
61.00	9.18	6.03	223.8	196.9	180.8	16.1	18.7	18.7	11.70
62.00	9.59	6.42	136.4	209.3	191.7	17.6	18.7	18.7	11.78
64.00	10.10	6.88	89.5	224.6	203.9	20.7	18.7	18.7	11.86
68.00	10.68	7.43	54.1	242.4	215.5	26.9	18.7	18.7	11.94
72.00	11.08	7.80	36.2	254.4	221.3	33.1	18.7	18.7	11.98

SUMMARY INFORMATION

MAXIMUM STAGE WAS 11.98 FEET AT 72.00 HOURS
 MAXIMUM DISCHARGE WAS 18.7 CFS AT .25 HOURS

PUMPING HISTORY

PUMP 1 "OFF" AT .50 HOURS
 PUMP 2 "OFF" AT .50 HOURS
 PUMP 1 "ON " AT 44.00 HOURS
 PUMP 2 "ON " AT 57.25 HOURS

ORIGINAL SUBMITTAL

SEP 08 1994

FT. MYERS

APPLICATION NUMBER

940908-3

FT. MYERS SERVICE CENTER

SCANNED

SCS PROGRAM

PROJECT NAME : SPANISH WELLS
 REVIEWER : ALAN V. ROSEMAN
 PROJECT AREA : 391.53 ACRES
 GROUND STORAGE . . . : 3.45 INCHES
 TERMINATION DISCHARGE : 5.00 CFS
 DISTRIBUTION TYPE . . : SFWMD
 RETURN FREQUENCY . . : 100.00 YEARS
 RAINFALL DURATION . . : 3-DAY
 24-HOUR RAINFALL . . : 10.14 INCHES
 REPORTING SEQUENCE . : STANDARDIZED

STAGE (FT)	STORAGE (AF)	DISCHARGE (CFS)
9.50	.00	.00
10.00	22.58	.00
10.50	50.83	.00
11.00	90.78	.00
11.50	148.43	.00
12.00	223.78	.00
12.50	316.80	.00
13.00	427.62	.00
13.50	556.09	.00
14.00	702.28	.00
14.50	886.17	.00

APPLICATION NUMBER
 ORIGINAL SUBMITTAL
 SEP 08 1994 940908-3

FT. MYERS SERVICE CENTER
 ----- RESERVOIR -----
 FT. MYERS

TIME (HR)	RAIN FALL (IN)	ACCUM. RUNOFF (IN)	BASIN DISCHGE (CFS)	ACCUM. INFLOW (AF)	VOLUME (AF)	OUTFLOW (AF)	DISCHGE (CFS)	INSTANT DISCHGE (CFS)	AVERAGE DISCHGE (CFS)	STAGE (FT)
.00	.00	.00	.0	.0	.0	.0	.0	.0	.0	9.50
4.00	.25	.00	.0	.0	.0	.0	.0	.0	.0	9.50
8.00	.49	.00	.0	.0	.0	.0	.0	.0	.0	9.50
12.00	.74	.00	.6	.0	.0	.0	.0	.0	.0	9.50
16.00	.99	.02	3.6	.8	.8	.0	.0	.0	.0	9.52
20.00	1.23	.07	6.1	2.4	2.4	.0	.0	.0	.0	9.55
24.00	1.48	.15	8.2	4.8	4.8	.0	.0	.0	.0	9.60
28.00	1.84	.29	15.4	9.4	9.4	.0	.0	.0	.0	9.70
32.00	2.20	.46	18.3	15.0	15.0	.0	.0	.0	.0	9.83
36.00	2.56	.66	20.5	21.5	21.5	.0	.0	.0	.0	9.97
40.00	2.92	.88	22.4	28.6	28.6	.0	.0	.0	.0	10.10
44.00	3.28	1.11	23.9	36.2	36.2	.0	.0	.0	.0	10.24
48.00	3.64	1.36	25.2	44.4	44.4	.0	.0	.0	.0	10.38
52.00	4.10	1.69	41.8	55.2	55.2	.0	.0	.0	.0	10.55
56.00	5.03	2.42	96.3	78.9	78.9	.0	.0	.0	.0	10.84
58.00	5.80	3.05	147.2	99.5	99.5	.0	.0	.0	.0	11.06
59.00	6.37	3.53	218.9	115.2	115.2	.0	.0	.0	.0	11.19

- - - - - R E S E R V O I R - - - - -									
TIME	RAIN	ACCUM.	BASIN	ACCUM.		ACCUM.	INSTANT	AVERAGE	
(HR)	FALL	RUNOFF	DISCHGE	INFLOW	VOLUME	OUTFLOW	DISCHGE	DISCHGE	STAGE
	(IN)	(IN)	(CFS)	(AF)	(AF)	(AF)	(CFS)	(CFS)	(FT)
59.50	6.87	3.97	347.6	129.5	129.5	.0	.0	.0	11.31
59.75	8.40	5.32	2135.9	173.7	173.7	.0	.0	.0	11.52
60.00	10.29	7.06	2749.6	230.5	230.5	.0	.0	.0	11.86
60.50	11.03	7.76	546.9	253.0	253.0	.0	.0	.0	12.13
61.00	11.42	8.12	286.0	264.8	264.8	.0	.0	.0	12.20
62.00	11.93	8.60	173.9	280.8	280.8	.0	.0	.0	12.30
64.00	12.56	9.20	114.0	300.2	300.2	.0	.0	.0	12.40
68.00	13.29	9.89	68.7	322.8	322.8	.0	.0	.0	12.52
72.00	13.78	10.36	45.9	338.0	338.0	.0	.0	.0	12.59

SUMMARY INFORMATION

MAXIMUM STAGE WAS 12.59 FEET AT 72.00 HOURS
 MAXIMUM DISCHARGE WAS .0 CFS AT .00 HOURS

ORIGINAL SUBMITTAL

SEP 08 1994

FT. MYERS

APPLICATION NUMBER

940908-3

FT. MYERS SERVICE CENTER
 SCANNED



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

LOWER WEST COAST REGIONAL SERVICE CENTER 2301 McGregor Boulevard, Fort Myers, Florida 33901
(239) 338-2929 • FL WATS 1-800-248-1201 • Suncom 748-2929 • Fax (239) 338-2936 • www.sfwmd.gov/org/exo/ftmyers/

CON 24-06

District Permit No. 36-00067-S
Application(s) No. Multiple

January 8, 2004

Spanish Wells Community Association, Inc.
PO Box 2253
Bonita Springs, FL 34133

Dear Sir or Madam:

Subject: Notice of Permit Transfer and Conversion from Construction to Operation Phase
Project Name Spanish Wells, Lee County
Section 3, Township 48 South, Range 25 East

In response to your request of November 4, 1994 for transfer and conversion from the construction phase to the operation phase for the above referenced permit, the parcels listed below have been officially transferred to Spanish Wells Community Association, Inc.

<u>Application No.</u>	<u>Parcel Name</u>	<u>Issue Date</u>
05238-A	Spanish Wells, Phase 1	Oct 19, 1978
900420-14	Spanish Wells Golf Condos	May 25, 1990
900511-3	Spanish Wells – Phase III A	May 25, 1990
900511-4	Spanish Wells – Phase III B	May 25, 1990
901101-7	Spanish Wells – Bag storage Building & Clubhouse	Nov 6, 1990
	Enclosure	
920701-5	Spanish Wells – Phase III A and III B	Jul 28, 1992
921112-8	Spanish Wells – Phase III C	Dec 8, 1992
930429-9	Spanish Wells Country Club – Golf Cart	May 28, 1993
	Storage Facility	
940908-3	Spanish Wells Country Club (Letter Mod)	Sep 15, 1994
X000001459	Spanish Wells – Phase II	Oct 11, 1979
X000013677	Spanish Wells – Phase II	Mar 01, 1983

It should be noted that, as a condition of transfer, you have agreed that all terms and conditions of the permit and subsequent modification, if any, are understood and accepted, and any proposed modifications shall be applied for and authorized by this District prior to such modification.

GOVERNING BOARD

Nicolás J. Gutiérrez, Jr., Esq., *Chair*
Pamela Brooks-Thomas, *Vice-Chair*
Irela M. Bague

Michael Collins
Hugh M. English
Lennart E. Lindahl, P.E.

Kevin McCarty
Harkley R. Thornton
Trudi K. Williams, P.E.

EXECUTIVE OFFICE

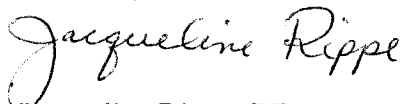
Henry Dean, *Executive Director*

Spanish Wells
January 8, 2004
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Copies of the permit documents, including conditions, can be obtained from the Regulation Resource Area in the Environmental Resource Regulation Department at the West Palm Beach Service Center.

If you have any questions, please contact Darlene Hutzell at the Lower West Coast Service Center at (239) 338-2929, ext. 7774.

Sincerely,

A handwritten signature in cursive script that reads "Jacqueline Rippe".

Jacqueline Rippe, PE
Service Center Director
Lower West Coast Service Center

c: Lee County Engineer
Bob Thinnes, Q. Grady Minor, Inc.

Spanish Wells
January 8, 2004
Page 3

bc: Vault File – Permit No. 36-00067-s
M. White
D. Hutzell